Basler Accessories

Installation Guide

HOUSING TRANSPAC TPH 4000, 90 - 240 V and 24 V

Outdoor Camera Housing with Sunshield, IP67

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2000032063

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1 Introduction

NOTICE

When using this housing in aggressive environments (e.g. where it is exposed to high humidity, salt water, or other corrosive elements), corrosion of the housing and/or camera can occur.

To prevent this, seal all external stainless steel screws and fittings with a silicone grease compound. This will help to extend the lifespan of the housing and the camera. This is especially important for the wall mount.

⚠ WARNING

Incorrect electrical connections can damage the camera and lead to injuries when using the housing and camera.

1. Disconnect the camera from the main power supply before opening the housing.
2. Electrical connections should only be made by a qualified electrician.

Purpose of this Document

This document is designed to give an overview over the technical specifications of the Transpac TPH 4000, 90 - 240 V and 24 V, housings. It will also explain how to install a camera inside a housing of this series. This document should be used in conjunction with the respective Basler camera user's manual.

Key Features of the Camera Housing

- Die-cast aluminum housing, ivory-colored powder coating
- Fully cable-managed wall mount
- Suitable for indoor/outdoor installation
- Adjustable camera mounting platform for IP and machine vision cameras by Basler
- Internal heater for defogging
- Internal fan for temperature management
- IP67 cable glands
- Internal power supply unit with spare terminal and fuse block
- Weight: 4 kg

- Suitable for the following Basler camera models:
  - ace
  - aviator
  - pilot
  - scout
  - IP cameras

Package Contents

Included with the housing are a wall mount as well as various parts needed for installing the wall mount and for mounting a camera inside the housing.

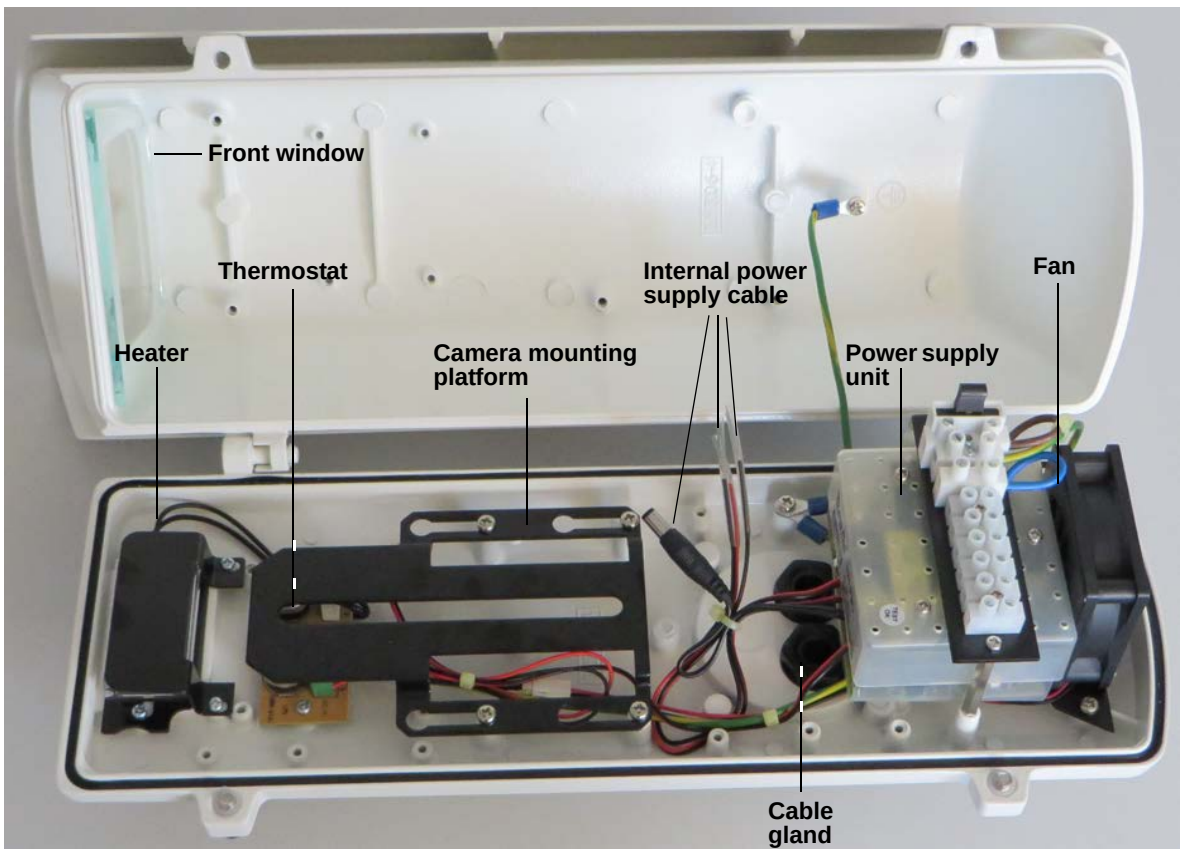

Fig. 1: Camera Housing (Internal View)

Fig. 2: Wall Mount

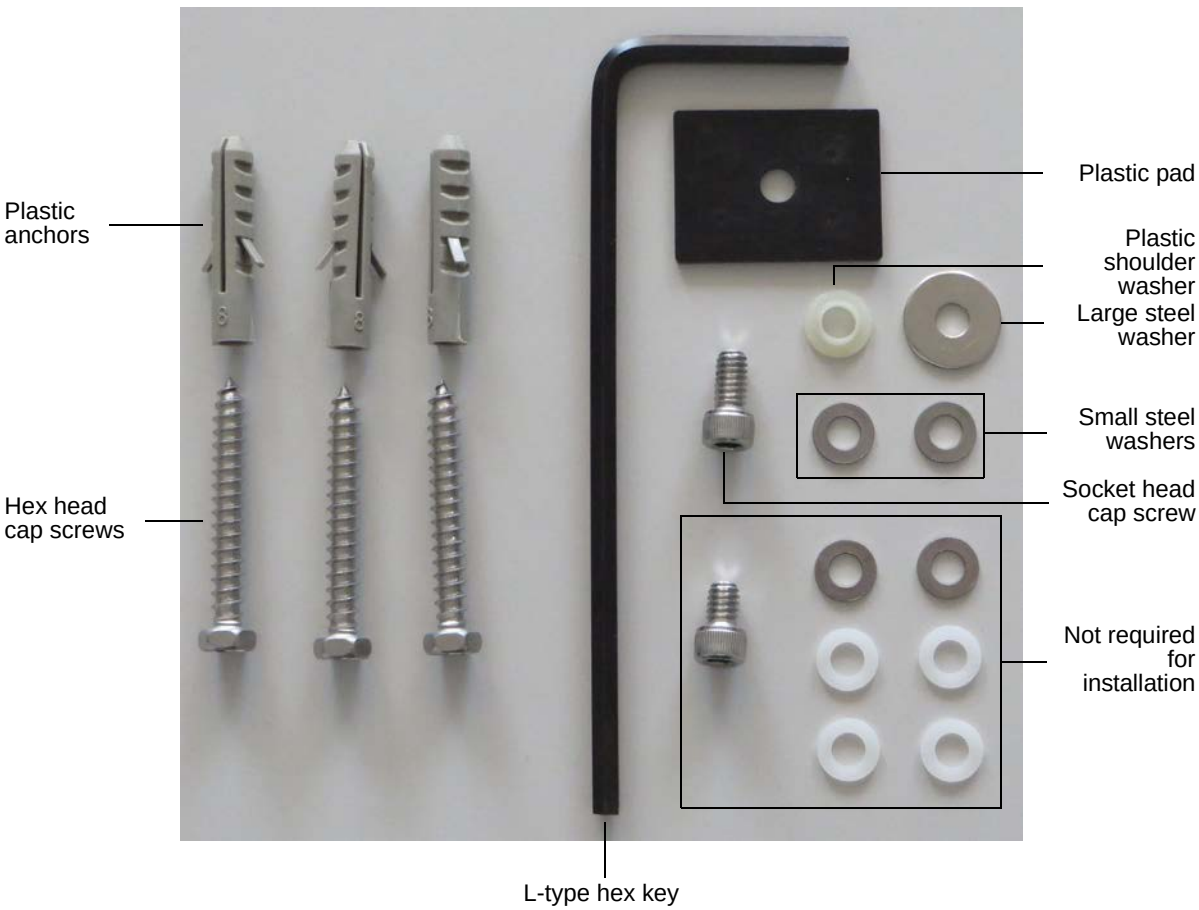

Fig. 3: Assembly Parts

Items needed for installing the wall mount:

- 3 plastic anchors
- 3 stainless steel hex head cap screws
- 1 L-type hex key

Items needed for mounting a camera inside the housing:

- 1 steel socket head cap screw, 1/4" x 1/2"
- 1 plastic pad
- 1 plastic shoulder washer
- 1 large steel washer
- 2 small steel washers
- 1 L-type hex key

	Note that all other parts included in the package are not needed for standard installations.

Dimensions (in mm)

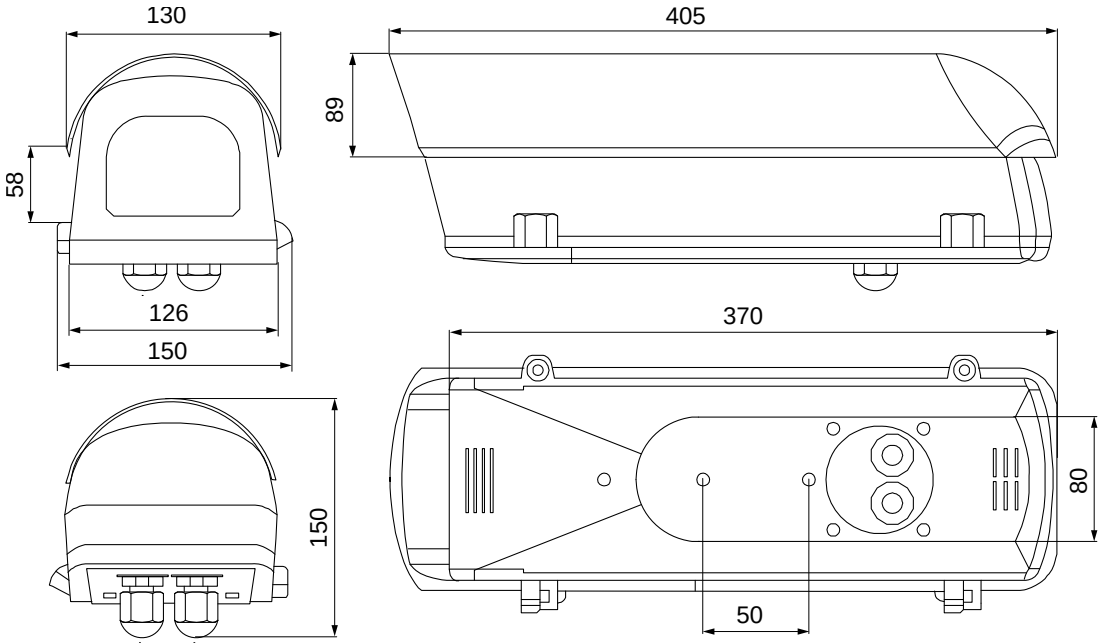

Fig. 4: Dimensions Housing

Maximum dimensions (external): 405 (L) x 150 (W) x 150 (H)

Maximum camera mounting space: 260 (L) x 90 (W) x 70 (H)

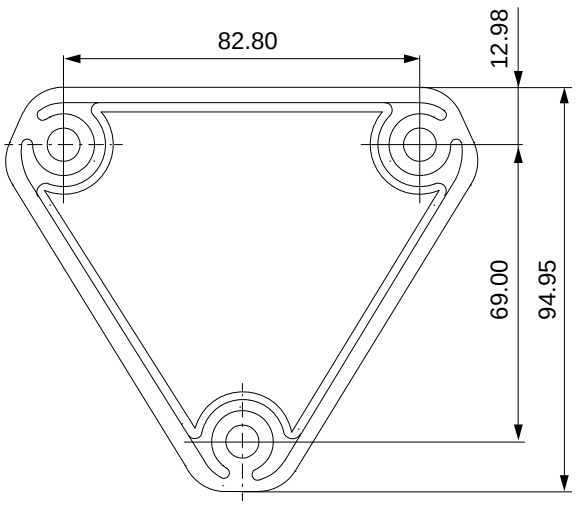

Fig. 5: Dimensions Wall Mount Base

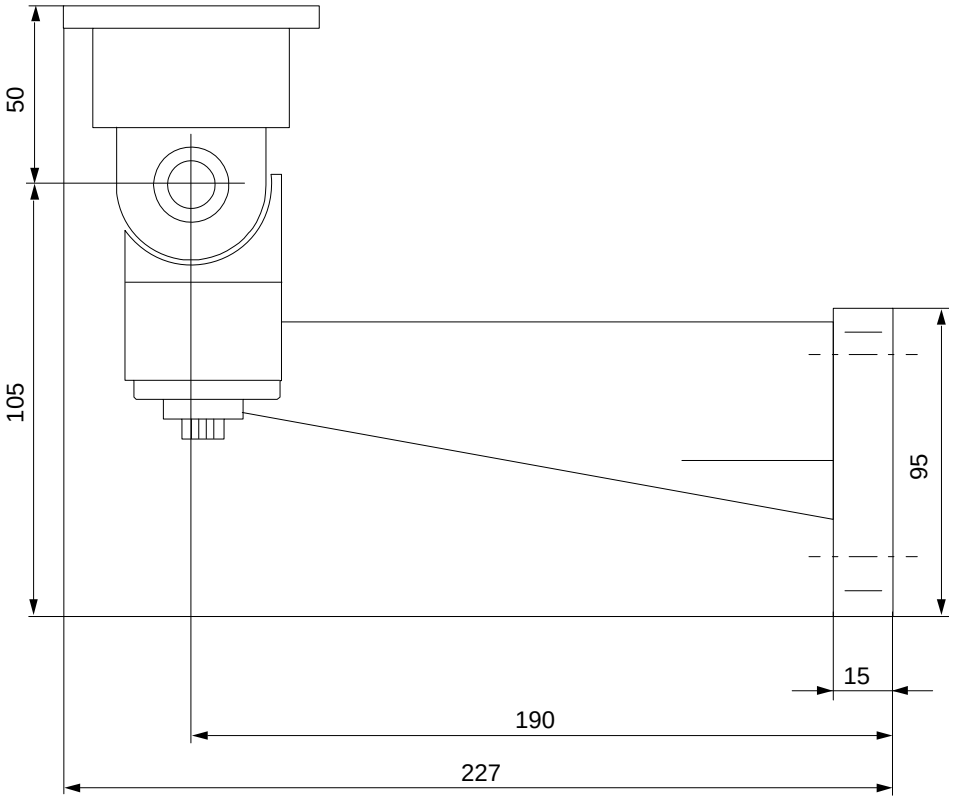

Fig. 6: Dimensions Wall Mount

Technical Specifications

Specification	**Camera Housing with Order Number 2000032062**	**Camera Housing with Order Number 2000032063**
External Power Supply	90 - 240 VAC Input Power Supply	24 VAC Input Power Supply
Internal Power Output	3 x 12 VDC, max. 3.5 A (including heater and fan)	
Heater Control	18 °C (On) / 28 °C (Off)	
Fan Control	35 °C (On) / 25 °C (Off)	
Operating Temperature	-20 °C to 50 °C **Note:** Check the operating temperature of the camera you are going to use as its operating temperature may differ from that of the housing.	
Protection Level	IP67	
Temper Glass Thickness	4 mm	

Table 1: Specifications

Electrical Information

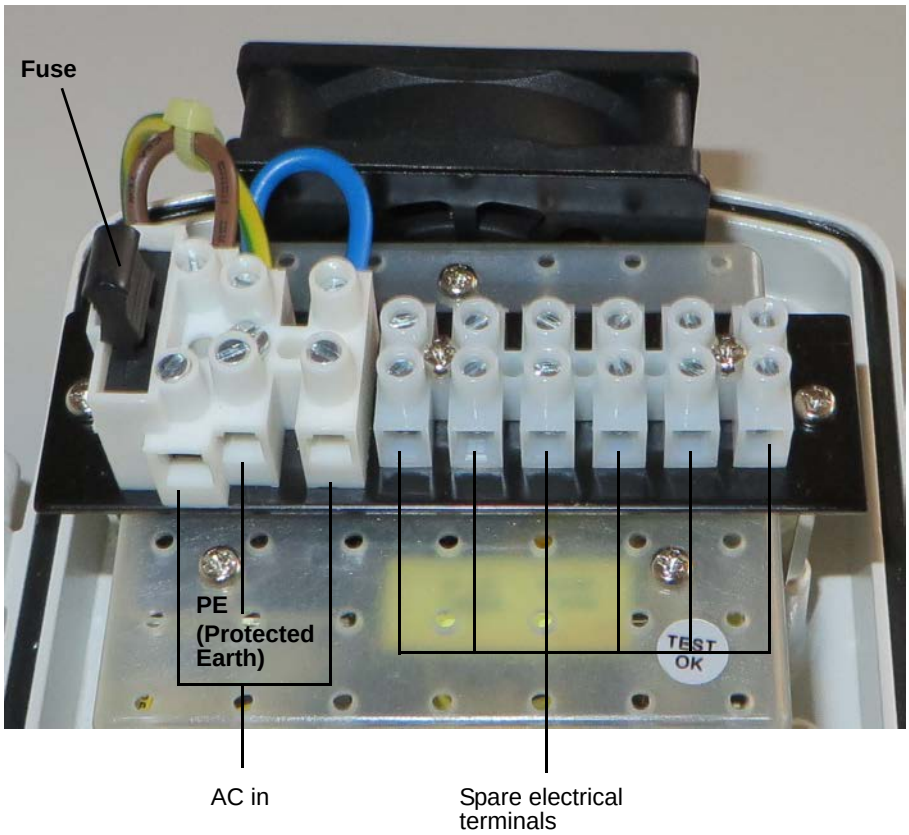

Fig. 7: Terminal Block

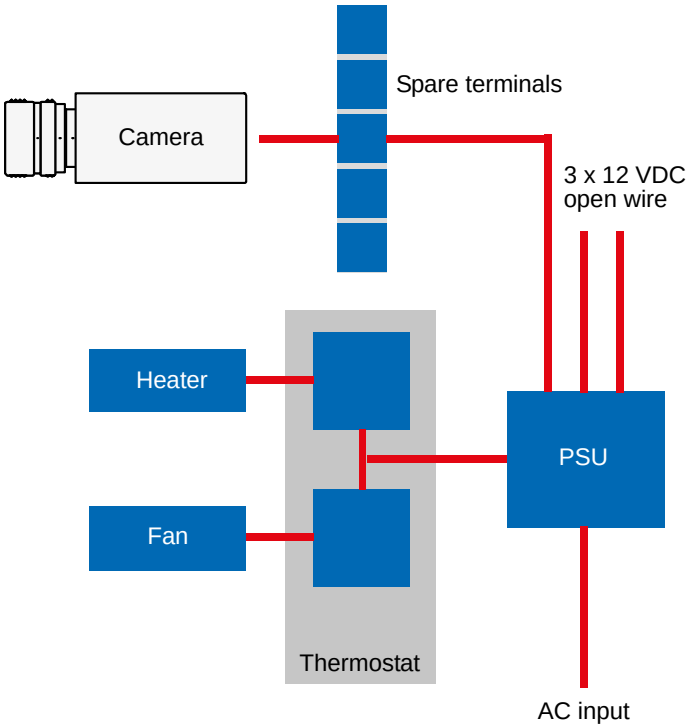

Fig. 8: Wiring Diagram

The unused 12 VDC power outputs can be used to power lens motors, lighting equipment, sirens etc.

Certifications

CE	Compliant with EN 55022:2010 Class B
LVD	Compliant with EN 60950-1:2006+A11:2009+A1:2010+A12:2011
FCC	Compliant with FCC Part 15:Subpart B (10-1-10 Edition) Class B
CISPR	22:2008 Class B
IP67	Compliant with IEC 60529
RoHS	Fully compliant
SVCH	Fully compliant

Table 2: Certifications

2 Mounting a Camera

The Transpac TPH 4000, 90 - 240 V and 24 V, camera housings can accommodate a variety of Basler IP and machine vision cameras. For Basler machine vision cameras, an additional camera mount is required which has to be purchased separately. Table 3 gives an overview over which camera mount is required for which camera.

Basler Camera Model	Additional Mount Required?	Camera Mount Order Number
ace	Yes	2000029679
aviator	Yes	2000015984
pilot	Yes	2000023896
scout	Yes	2000023894
IP Camera	No	n/a

Table 3: Camera-specific Mounting Information

Preparing the Housing

In order to install a camera inside the housing, you have to remove the camera mounting platform (see Fig. 9) from the housing. The steps required vary slightly depending on the camera model.

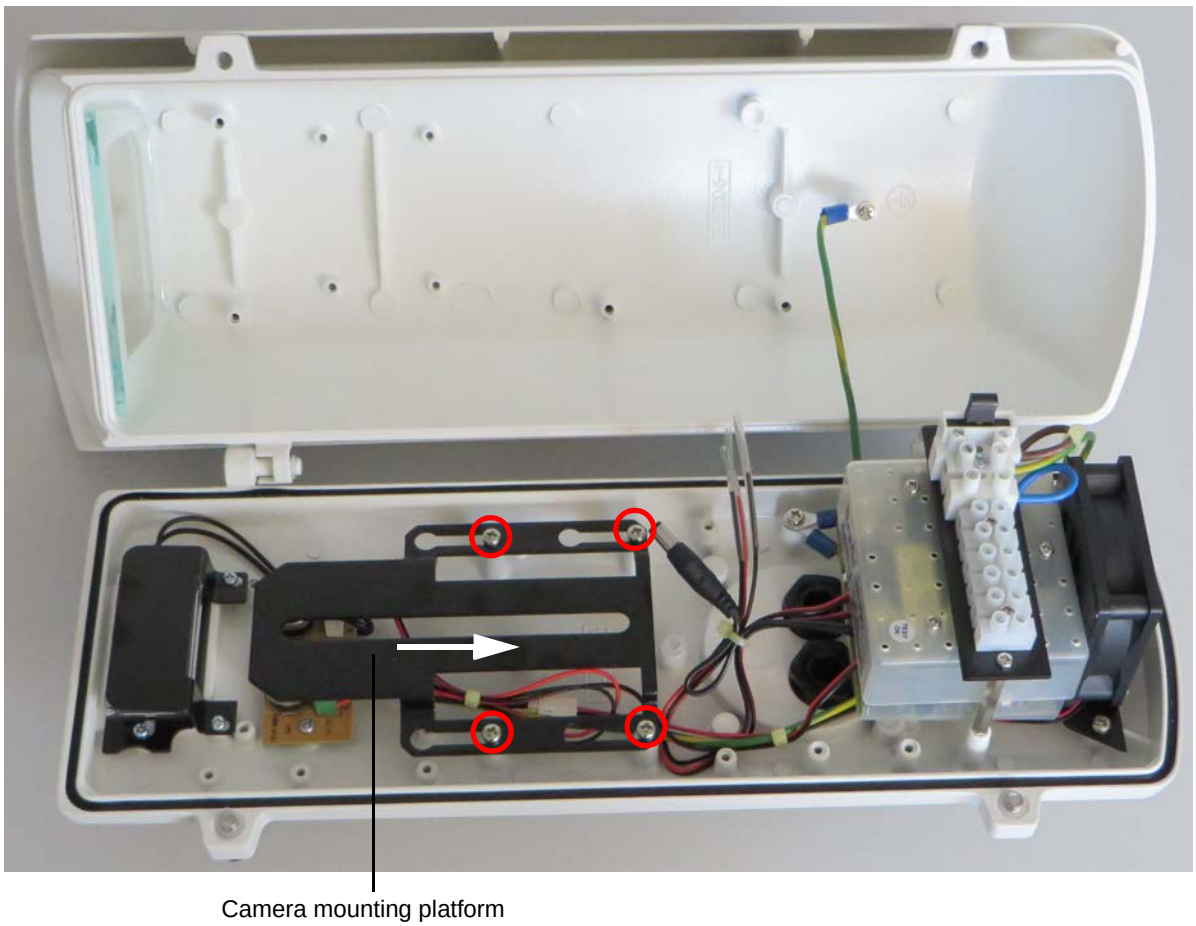

Fig. 9: Removing the Camera Mounting Platform

To Prepare the Housing for Small Cameras:

1. Slightly loosen the four screws (circled in red in Fig. 9) that hold the platform in place. Don't remove the screws completely.
2. Slide the camera mounting platform along the screws in order to line up the screws with the holes in the platform (in the direction of the arrow in Fig. 9).
3. Lift off the camera mounting platform.

   The screws remain in place, still attached to the housing body.

Now you can mount a camera on the camera mounting platform.

To Prepare the Housing for Large Cameras:

By default, the camera mounting platform sits on four spacers (see Fig. 10). You have to remove these before you can install a large camera (e.g. a Basler aviator) on the mounting platform.

1. Remove the four screws (circled in red in Fig. 9) that hold the platform in place.
2. Lift off the camera mounting platform.
3. Remove the spacers that support the camera mounting platform.
4. Return the screws to their original position.

   Don’t tighten them fully. Screwing them in loosely is sufficient.

Now you can mount a camera on the camera mounting platform.

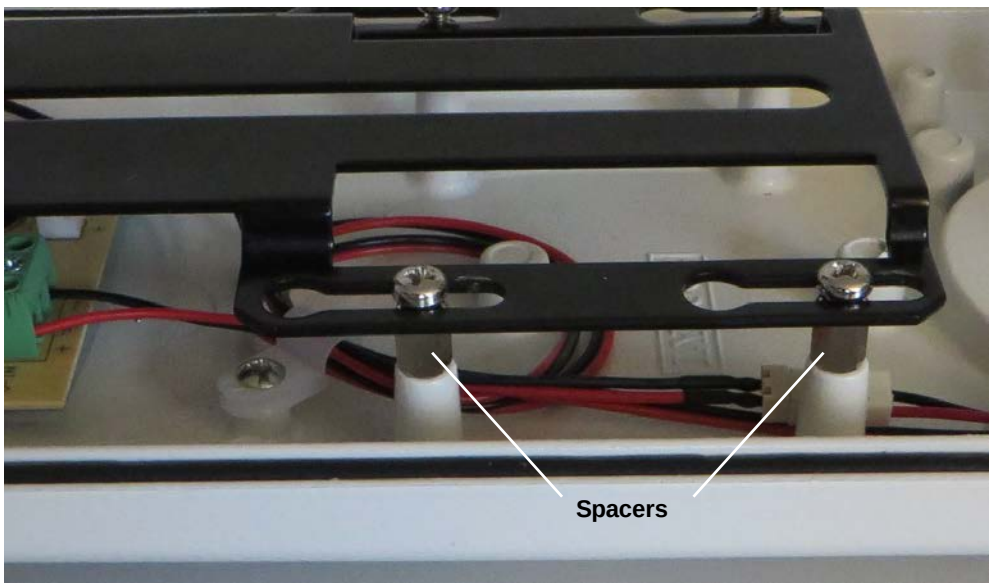

Fig. 10: Mounting Platform Supported by Spacers

Installation Instructions by Camera Model

The following figures demonstrate how to install the different camera models. When installing Basler cameras, it is recommended to use two small steel washers as well as the large steel washer in order to prevent damaging the camera.

To Install a Machine Vision Camera (see Fig. 11):

1. Attach the camera mount to the bottom of the camera (step 1).
2. Assemble the screws and washers (step 2).
3. Thread the screw-washer assembly through the camera mounting platform and the plastic pad.
4. Twist the screw into the camera mount.
5. After positioning, tighten the screw.

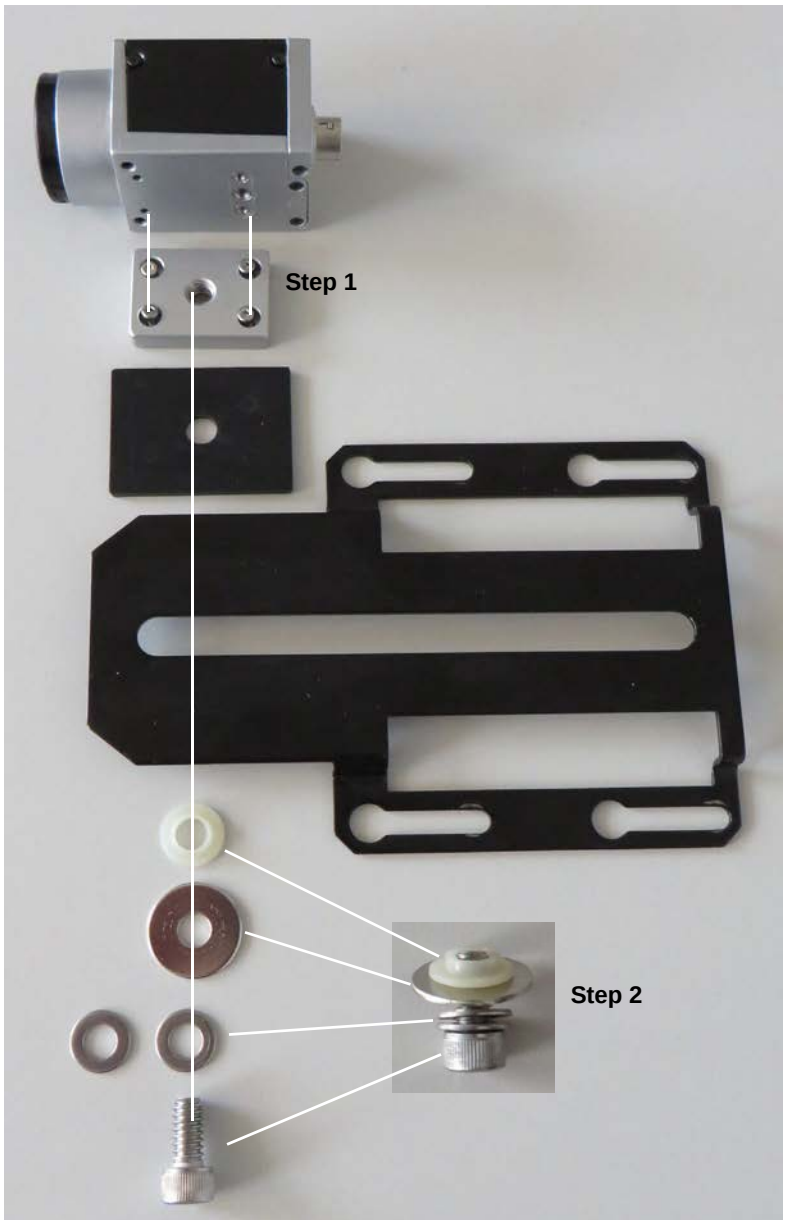

Fig. 11: Installing a Machine Vision Camera (ace GigE Shown as an Example)

To Install an IP Camera (see Fig. 12):

1. Assemble the screws and washers (step 1).
2. Thread the screw-washer assembly through the camera mounting platform and the plastic pad.
3. Twist the screw into the bottom of the camera.
4. After positioning, tighten the screw.

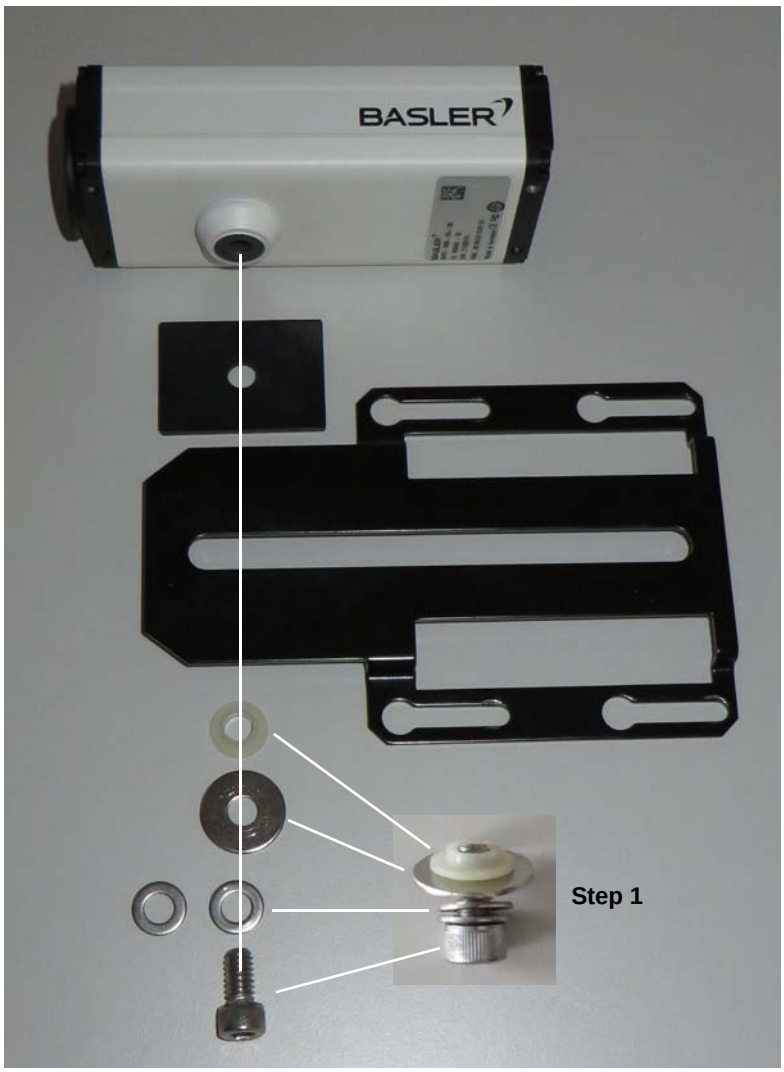

Fig. 12: Installing an IP Camera

Revision History

Doc. ID Number	Date	Changes
AW00129901000	26 Mar 2014	Initial release of this document.